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If you feel exhausted and weak or tired easily, don't try to brace up on liquor or some patent medicine that will produce the same effect. It is only temporary, and the reaction leaves you in worse shape than before.

What you want is more strength. Father John's Medicine is a pure food medicine; its ingredients are nourishing and strengthening. Nourishing equalizer for the body and body builder for all throat and lung troubles.

Contains no alcohol or injurious drugs. Get a bottle today; it will make you strong. Remember, it has been in use fifty years.

FATHER JOHN'S MEDICINE

Contains no weakening stimulants—not a temporary tonic, but a food medicine, and because it is a food medicine it

BUILDS YOU UP

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RECENT NAVAL IMPROVEMENTS.

By Frederic J. Haskin.

Our navy not only ranks high among the navies of the world in size and strength, but it is one of the most up-to-date in construction and armament. All of the methods and devices of naval warfare which the European conflict is bringing into prominence are being carefully studied by the experts of the Navy Department, and the results used in improving our own fleet.

The tremendous destructive power of submarines has been conclusively demonstrated in this war, and naval experts are agreed that this is the arm of the navy which must undergo the most rapid development in the near future. Experiments are constantly being carried on in this country looking toward the improvement of these craft and of the defense against them.

Elaborate methods of attack by submarines and the tactics against them have recently been evolved, and a description of these will help to make clear the problems with which naval engineers and officers are trying to solve.

In order to locate a battleship which it wishes to attack, a submarine must

to Locate Battleship, the surface of

the submarine is moving rapidly, this

periscope is visible at five or six thou-

sand yards, usually from two points,

while the submarine is able to

rise very quietly, it may safely come

within four thousand yards of its in-

tended victim. Having thus made ob-

servations as to the course and speed

of the vessel, usually from two points,

the submarine goes below, comes up

within range and launches its torpedo

so that it will intercept the vessel.

This is able to do with great accu-

racy, provided it can be within four

thousand yards.

The chief limitation upon this method

of attack is the speed of the submarine

below water. No submarine has so far

been developed which will make

more than four knots when surfaced,

and that speed is not sufficient

to overtake a battleship. In a word,

the submarine must wait until the

torpedoing vessel is within range

of its torpedoes. It is reported that

the Navy Department is now develop-

ing a speed of twenty-five knots

when surfaced, and that an

European power has constructed such

a craft, to be driven on the surface at

a speed of twenty-five knots by

using fuel oil, while below the

surface its motive power will be an

electrical battery, like that of all other

submarines.

The next advance in submarine con-

struction expected by naval experts

is a sub-

marine capable of

high speed submerged

Next Advance Expected, high speed

below the surface. This would be

about the deadliest water craft imagi-

nable, as it could pursue and harass a

battleship indefinitely with compar-

atively little risk of either attack or

detection.

What is needed in order to make the

construction of such a submarine pos-

sible is an internal combustion engine,

which will develop high power without

emitting any smoke or steam. It is

reported that the Navy Department is

now working on a project to reveal the

location of the vessel. Ex-

periments are constantly being made in

the effort to develop such an engine.

It is a reasonable certainty that the

problem of driving a submarine at

high speed below the surface will be

solved in the near future, and the first

naval power to develop such a craft will

certainly have a great advantage in

war.

The problem of defense against sub-

marines has brought forth some in-

teresting devices. A submarine is dif-

ficult to detect, and it is very prob-

able that it will be able to detect a

battleship before it is within range

of its torpedoes. It is reported that

the Navy Department is now develop-

ing a device which will enable a sub-

marine to detect a battleship before it

is within range of its torpedoes.

perfection, it is conceded that air craft must be met with air craft. It is in- teresting to note in this connection that naval strategists believe the use of aeroplanes and dirigibles as aux- iliaries to a fleet has been so perfected that a country might be literally and effectively invaded from the sea with- out an army. Admiral Fluke recently told the House committee on naval af- fairs that in his opinion a fleet equip- ped with aeroplanes could easily send an invading force to sea, and that such an inva- sion might be highly ef- fective unless the attacking air craft were repelled by their kind.

Although behind other powers in the development of this naval auxiliary, the United States is making every effort to improve its air fleet. The Navy Department is making every effort to discover a firm in this country that is willing to undertake the manufacture of dirigibles, and the first order for an aeroplane for this government has un- dergone successful tests within the last few weeks.

During the operations of our navy in Mexico aeroplanes were carried by the warships and operated successfully as scouts from the decks of the vessels.

It is reported that the Navy De- partment is now making every effort to purchase one or two ma- chines, and to use these in experiments directed toward perfecting a type of dirigible that will serve the purposes of our fleet.

Of guns for defense against aero- planes the Navy Department has now two types.

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